Title (en)

INFRA-RED RADIATION DETECTOR

Publication

EP 0145071 B1 19930127 (EN)

Application

EP 84201724 A 19841128

Priority

GB 8332264 A 19831202

Abstract (en)

[origin: EP0145071A2] A pyroelectric infra-red radiation detector which is particularly suited to automated assembly comprises a pyroelectric detector element (1) mounted in a housing (4) having a window (5) transparent to infra-red radiation. Electrically conductive leads (6,7,8), e.g. in a single-in-line configuration, extend through a base portion (9) of the housing for making external electrical connections to the detector. Lead (8) comprises an extended portion (8b,8c,8d) within the housing providing a cantilever support (8d) to which the detector element (1) is fastened. The leads (6,7,8) may all be formed from portions of a unitary lead frame. A second differentially connected pyroelectric detector element (2) may be fastened to another cantilever support (16b) formed by a portion of the same lead frame. The cantilever supports (8d,16b) preferably extend from an insulating block (11) which encapsulates an associated electrical component (18) and which also provides support for the detector elements.

IPC 1-7

G08B 13/18; H01L 37/02

IPC 8 full level

G01J 1/02 (2006.01); **G08B 13/191** (2006.01); **H01L 37/02** (2006.01)

CPC (source: EP KR US)

G08B 13/191 (2013.01 - EP US); **G08B 13/22** (2013.01 - KR); **H01L 24/73** (2013.01 - EP US); **H10N 15/10** (2023.02 - EP US); H01L 2224/48091 (2013.01 - EP US); H01L 2924/01322 (2013.01 - EP US); H01L 2924/12033 (2013.01 - EP US)

Designated contracting state (EPC)

CH DE FR GB IT LI SE

DOCDB simple family (publication)

EP 0145071 A2 19850619; **EP 0145071 A3 19880803**; **EP 0145071 B1 19930127**; CA 1232959 A 19880216; DE 3486056 D1 19930311; DE 3486056 T2 19930701; ES 538074 A0 19851101; ES 8602279 A1 19851101; GB 2150747 A 19850703; GB 2150747 B 19870423; JP H0527812 B2 19930422; JP S60135827 A 19850719; KR 850004682 A 19850725; KR 910008685 B1 19911019; US 4616136 A 19861007

DOCDB simple family (application)

EP 84201724 A 19841128; CA 468849 A 19841128; DE 3486056 T 19841128; ES 538074 A 19841129; GB 8332264 A 19831202; JP 25392784 A 19841130; KR 840007537 A 19841130; US 67114984 A 19841113